NASA'S MISSION TO PLANET EARTH

EARTH PROBES

DATA INFORMATION SYSTEM

EOS

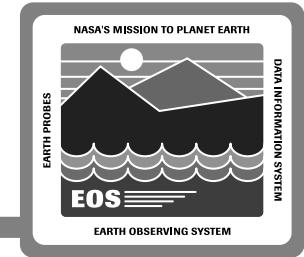EARTH OBSERVING SYSTEM

SDPS PDR Summary

Marti Szczur

28 February 1995

Agenda

❏ **PDR Summary** **[Marti Szczur]**

❏ **Review Board Findings** **[Moshe Pniel]**

❏ **SDPS Workoff Plans** **[Steve Fox]**

❏ **Project Workoff Plans** **[Marti Szczur]**

Key External Design-Related Activities Between SDR and PDR

Independent Architecture Study Review - 9/94

Data Modeling WG Workshops - 8/94, 12/94 and Telecons

Design WG Biweekly Telecons - 7/94-2/95

Level 4 Requirements Review - 12/94

PDPS Toolkit 3 Reviews & Delivery - 10/94

AHWGP Meetings/Telecons

Evaluation Package 3 Analysis & Report, summer, '94

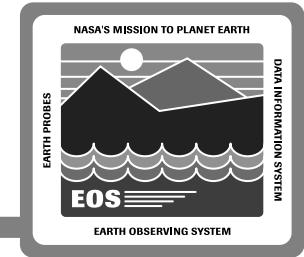Evaluation Package 4 Reviews & Delivery - 8/94-12/94

V0 Operational Prototype Delivery - 8/94

V0 UVA Tirekickers Workshop - 10/94

NRA/CAN Workshop - 1/95

Closure of all (39) SDPS-related RIDs generated at SDR

Key External Activities Planned Between PDR and CDR

Release B Release Initiation Review (RIR) - 3/95

Algorithm I&T Workshop - 4/95

Planning and Scheduling Workshops - summer '95

EP Prototype Workshop1 - spring '95

EP 6 Objectives and Design Reviews - spring, summer '95

Toolkits 4 and 5 Deliveries - 3/95, 7/95

Science Information System Focus Team Meeting (SISFT) - spring '95

Working Group Meetings/Telecons
- AdHoc Data Integration Working Group
- AdHoc Working Group on Production (AHWGP)
- Design Working Group
- Data Modeling Working Group
- *AdHoc Working Group on Consumers*

SDPS PDR Purpose / Scope

Determine if SDPS is ready to proceed to detailed design and ready to begin selection/acquisition of COTS hardware and software

- Present highlights of the preliminary design phase and the supporting engineering activities

- Respond to high priority issues surfaced at the SDPS Level 4 requirements workshop

- Identify specific areas which require or would benefit from additional attention before proceeding into detail design
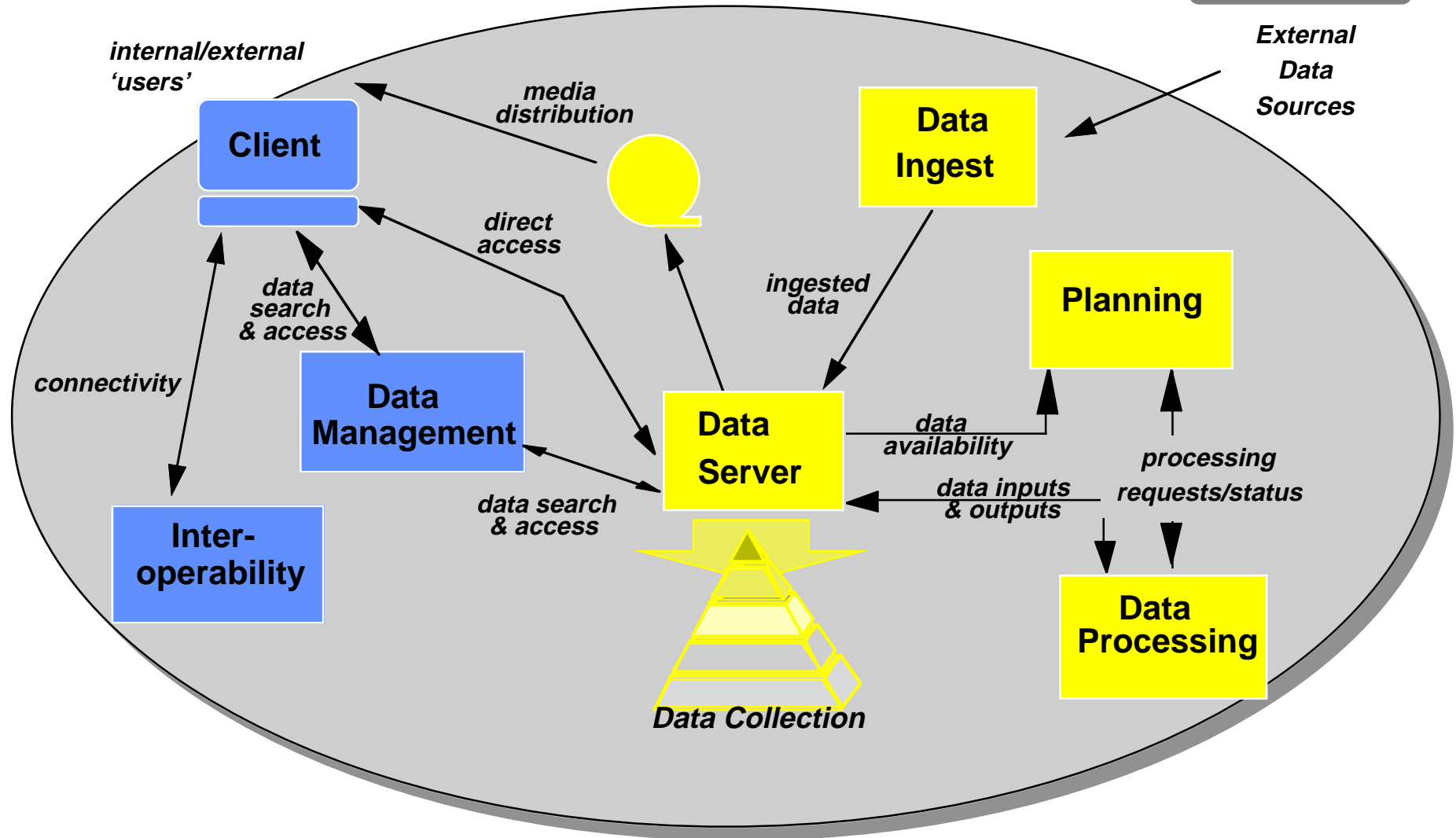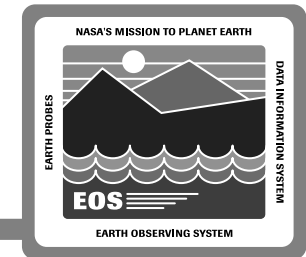
Focus is on the two initial ECS releases

- TRMM mission preparation ("Interim Release 1", IR-1)

- TRMM operations and AM-1/L-7 mission preparation ("Release A")
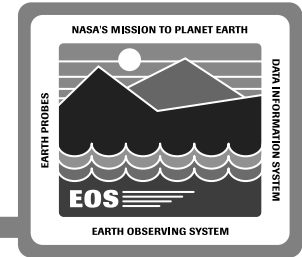
Where applicable, selectively looked ahead to AM-1/L7 operations ("Release B"), and beyond, to facilitate growth and evolution

SDPS Architecture
Subsystem Interaction Overview

internal/external 'users'

External Data Sources

Client

media distribution

Data Ingest

direct access

ingested data

Planning

data search & access

Data Management

connectivity

Data Server

data availability

Inter-operability

data search & access

data inputs & outputs

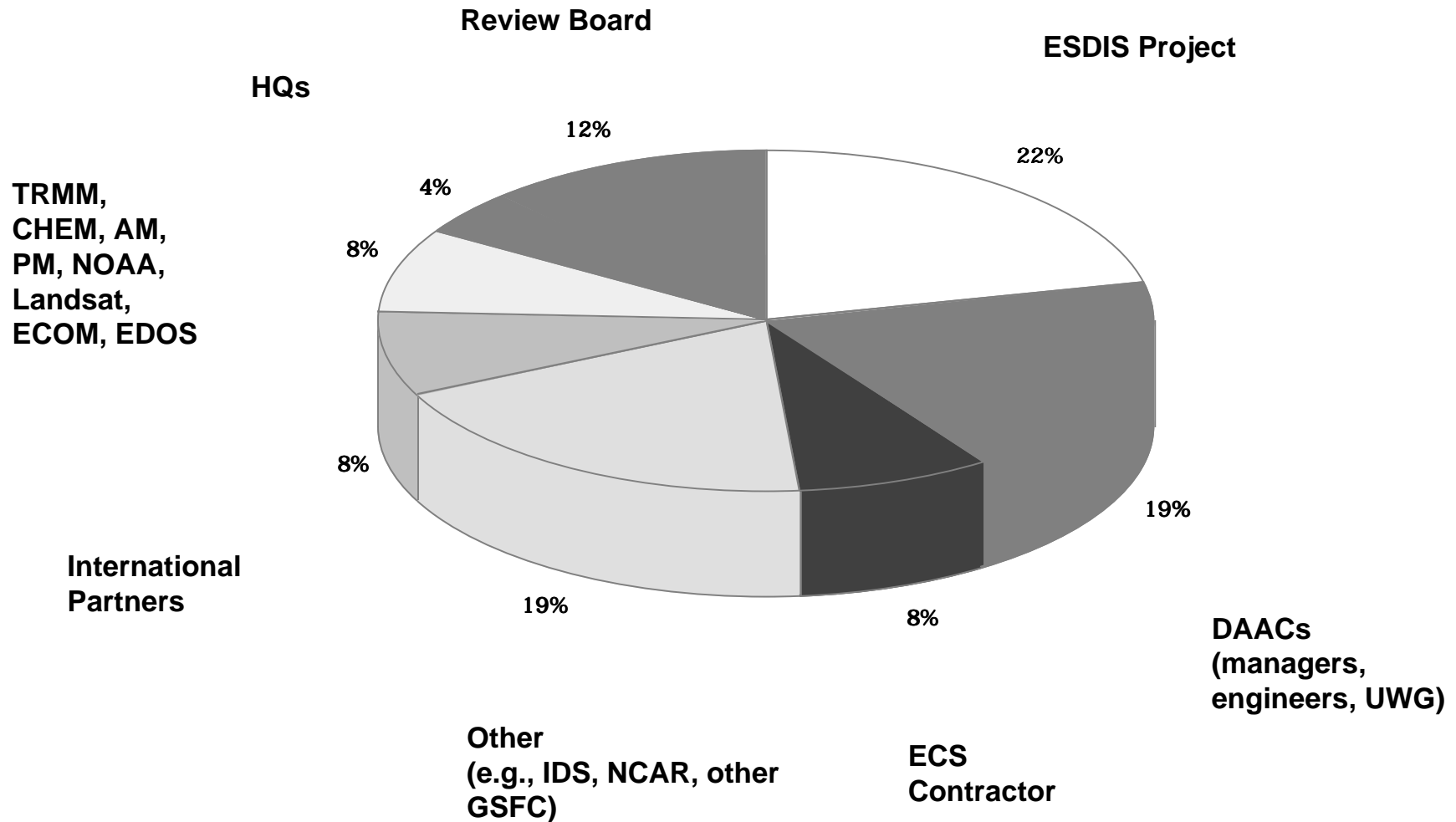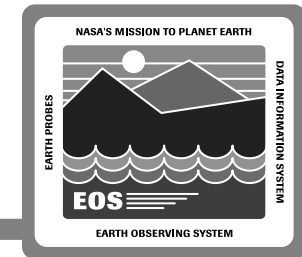*processing requests/status*

Data Processing

Data Collection

SDPS PDR Topics
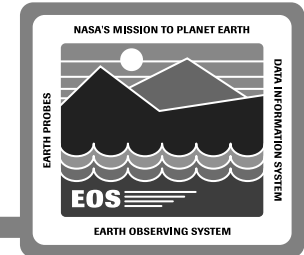
- **Segment Design Overview**

- **IAS Issues / Response**

- **User, Algorithm, and Data Models**

- **Data Server, Ingest, Planning, and Data Processing Subsystem Designs**

- **Integration of Version 0 Client with Release A**

- **Version 0 Data Migration**

- **Incremental Development Status (Client, Interoperability, Data Management Subsystems)**

- **EP4 Demonstration**

- **DAAC Specific Configurations and Operations Scenarios**

- **DAAC LAN Designs**

- **Development / Integration & Test Plans**

PDR Attendee Composition

Review Board

ESDIS Project

HQs

TRMM, CHEM, AM, PM, NOAA, Landsat, ECOM, EDOS

International Partners

Other (e.g., IDS, NCAR, other GSFC)

ECS Contractor

DAACs (managers, engineers, UWG)

12%

4%

8%

22%

8%

19%

19%

8%

SDPS PDR Review Board (20)

PANEL MEMBERS	ESDIS ROLE(s)	DAAC/Center Association
Bill Mack, Co-chair	Office of Flight Assurance	GSFC
Moshe Pniel, Co-chair	ASTER IT, AHWGP, DWG	JPL
Bruce Barkstrom	CERES PI, EOS Advisory Panel, AHWGP, DWG, IWG	LaRC
Graham Bothwell	MISR IT, AHWGP	LaRC
Chris Daly	ECS System Engineer	GSFC
Phil Davis	Independent, Earth Science Directorate	GSFC/ Code 900
Bill Emery	EOS Advisory Panel, DWG, Tirekicker	GSFC/UWG
David Glover	EOS Advisory Panel,Tirekicker, IWG	JPL/UWG
Chris Harris	DAAC, M&O	LaRC
Greg Hunolt	ECS DAAC Systems/Science Ops Manager	GSFC
Cathy LaPenta	DAAC Manager, M&O	MSFC
Chris Lynnes	DAAC Engineer, DWG, M&O	GSFC
Ed Masuoka	MODIS IT, AHWGP	GSFC
Jim Milligan	Independent, HST Project	GSFC
Lyn Oleson	DAAC Manager, M&O	EDC
Nancy Palm	Independent, Earth Science Directorate	GSFC/Code 931
Skip Reber	GSFC's MTPE Project Scientist	GSFC
Ricky Rood	DAO PI, EOS Advisory Panel, IWG	GSFC
Kevin Schaeffer	HQ's MTPE/SDPS Project Manager, DWG	NASA/HQ
John Wolfgang	Independent, Engineering Directorate	GSFC